



PT TEMPERATURE SENSOR – PTF FAMILY

SPECIFICATIONS

- **Conformal to standard platinum temperature sensors according DIN EN 60751**
- **R0: 100 and 1000 Ω**
- **Class F 0.1 (T = AA), F 0.15 (A), F 0.3 (B) and F 0.6 (C) accuracy**
- **Wide temperature range**
- **Different outline dimensions**
- **Global interchangeability**

The PTF-sensor family combines a group of resistance temperature detectors (RTD) using a Platinum resistor in thin film technology as sensing element. It consists of a structured platinum film on a ceramics substrate, passivated by glass coating. The connection wires are protected with glass on the welding area.

The characteristic curve of this Platinum RTD complies with DIN EN 60751. The usage of Platinum as resistive material guarantees high long term stability.

Due to small outline and low mass this RTD has a low time constant; therefore it is a suitable solution for fast and precise feedback control systems.

FEATURES

Conformal to DIN EN 60751
Wide temperature range: -50 ... +600 °C (Ni/Au wire and Class F 0.3, Ag-Wire versions are limited to 300 °C)
Standard nominal resistances values:
R₀: 100 and 1000 Ω (other on request)
Class F 0.1 (T = AA), F 0.15 (A), F 0.3 (B) and F 0.6 (C) accuracy
Low drift over lifetime
Fast response time because of low thermal mass
Different outline dimensions available to fit a wide range of space requirements
Global interchangeability

APPLICATIONS

Temperature feedback control
White goods
Industrial applications
Automotive
Medical
Sensing element for plug-in probes